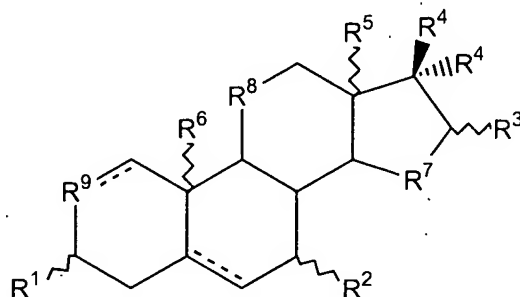


AMENDMENTS TO THE CLAIMS

1. (currently amended): A method to treat a subject having, or
5 susceptible to developing, a pathogen infection, an autoimmune disease,
inflammation or allergy, osteoporosis, acute myelitis, sarcoidosis, a cancer, a
precancer, a neurological disorder, a wound, a bone fracture, a hemorrhage,
a burn, a skin lesion or an immunosuppression condition or an unwanted
immune response either or both of which are associated with a
10 chemotherapy, radiation exposure or aging, wherein the method comprises
intermittent administration of an effective amount of a compound to the
subject, wherein the compound is 16 α -bromo-3 β -hydroxy-5 α -androstane-17-
one hemihydrate or the compound has the structure



15 wherein, the dotted lines are optional double bonds and the hydrogen
atom at the 5-position, if present, is in the α -configuration;

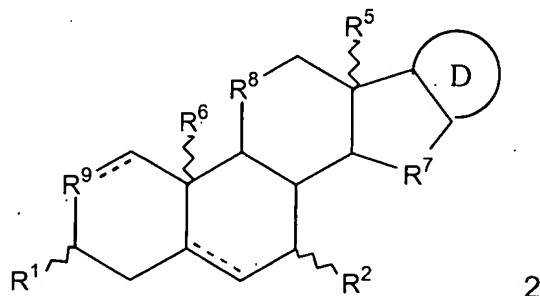
R^1 , R^2 , R^3 , R^4 , R^5 , R^6 and R^{10} independently are -H, -OH, -OR^{PR}, -SH, -
SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH,
=NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a
20 phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a
sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a
thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a
thioacetal, an optionally substituted alkyl group, an optionally substituted
alkenyl group, an optionally substituted alkynyl group, an optionally
25 substituted aryl moiety, an optionally substituted heteroaryl moiety, an
optionally substituted monosaccharide; an optionally substituted

oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
 or,

one more of R^2 , R^3 , R^4 , R^5 , R^6 , R^{10} , R^{15} , R^{17} and R^{18} independently are

5 =O, or,

R^3 and both R^4 together comprise a structure of formula 2



R^7 is $-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{CHR}^{10}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{O}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{S}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$, $-\text{O}-$, $-\text{O}-\text{CHR}^{10}-$, $-\text{S}-$, $-\text{S}-\text{CHR}^{10}-$, $-\text{NR}^{\text{PR}}-$ or $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$;

R^8 and R^9 independently are $-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{CHR}^{10}-$, $-\text{O}-$, $-\text{O}-\text{CHR}^{10}-$, $-\text{S}-$, $-\text{S}-\text{CHR}^{10}-$, $-\text{NR}^{\text{PR}}-$ or $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$, or R^8 or R^9 independently is absent, leaving a 5-membered ring;

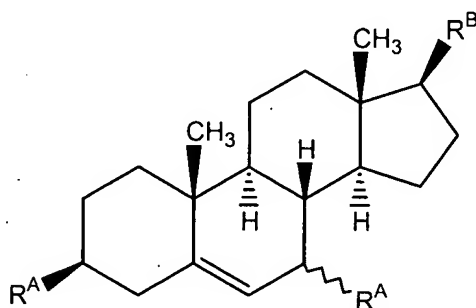
R^{13} independently are C_{1-6} alkyl;

15 R^{PR} independently are a protecting group;

D is a heterocycle or a 4-, 5-, 6- or 7-membered ring that comprises saturated carbon atoms, wherein 1, 2 or 3 ring carbon atoms of the 4-, 5-, 6- or 7-membered ring are optionally independently substituted with $-\text{O}-$, $-\text{S}-$ or $-\text{NR}^{\text{PR}}-$ or where 1, 2 or 3 hydrogen atoms of the heterocycle or 1 or 2

20 hydrogen atoms of the 4-, 5-, 6- or 7-membered ring are substituted with $-\text{OR}^{\text{PR}}$, $-\text{SR}^{\text{PR}}$, $-\text{N}(\text{R}^{\text{PR}})_2$, $-\text{O}-\text{Si}(\text{R}^{13})_3$, $-\text{CN}$, $-\text{NO}_2$, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a
 25 thioacetal, a halogen, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an

optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,
an optionally substituted monosaccharide, an optionally substituted
oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
5 or, one more of the ring carbons are substituted with =O or =S, or D
comprises two 5- or 6-membered rings, wherein the rings are fused or are
linked by 1 or 2 bonds, provided that the compound is not 3 β -hydroxyandrost-
5-ene-17-one, 3 β -hydroxyandrost-5-ene-17-one 3-sulfate or an ester or ether
derivative of either compound and provided that when the compound has the
10 structure

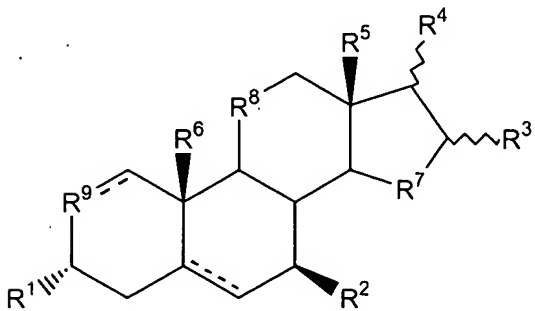
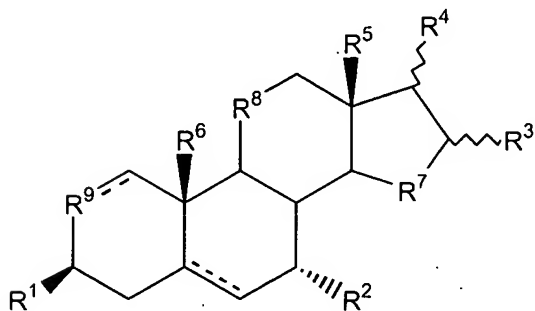
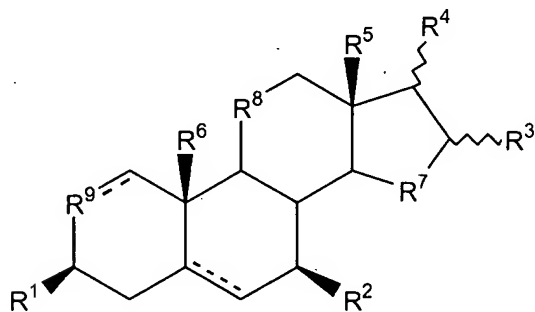
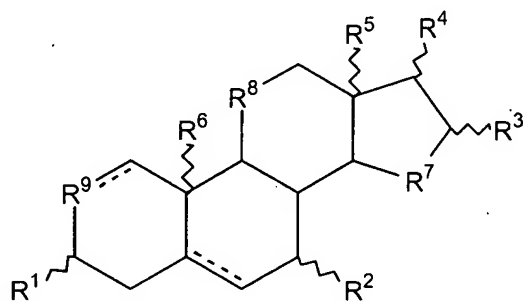


wherein each R^A independently is -OH, =O, an ester or an ether, and
R^B is -C(O)CH₃, -OH, =O, an ester or an ether, then the ~~use of the compound~~
method is for the treatment of a subject having or susceptible to developing
15 an autoimmune disease, inflammation or allergy, osteoporosis, acute myelitis,
sarcoidosis, a cancer, a precancer, or an immunosuppression condition or an
unwanted immune response either or both of which are associated with a
chemotherapy, a radiation therapy, a wound, a bone fracture, a hemorrhage,
a skin lesion or a burn or the medicament is for the treatment of a human
20 having or susceptible to developing a pathogen infection selected from the
group consisting of HIV-1, HIV-2, HTLV-1, HTLV-2, HSV-1, HSV-2, HHV-6,
HHV-8, CMV, hepatitis C virus, hepatitis B virus, Western Equine Encephalitis
Virus, Japanese Encephalitis Virus, Yellow Fever Virus, a poxvirus, a Dengue
virus, a papillomavirus, a togavirus, a flavivirus, an intracellular bacterium,
25 *Mycobacterium*, *Listeria*, *Brucella*, *Bartonella*, *Bordetella*, *Pseudomonas*,
Yersinia, *Vibrio*, *Salmonella*, *Streptococcus*, *Staphylococcus*, *Candida*,

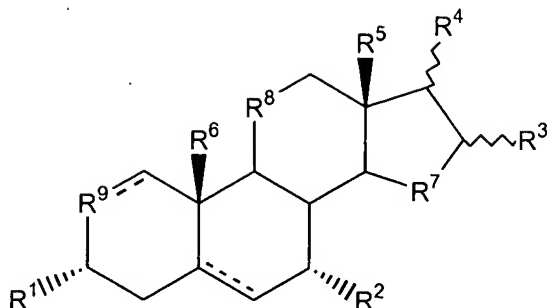
Aspergillus, *Cryptococcus*, *Plasmodium*, *Trypanosoma*, *Leishmania*, a gastrointestinal nematode, a helminth, *Cryptosporidium*, *Toxoplasma*, *Pneumocystis*, *Schistosoma*, or *Strongyloides stercoralis*.

5

2. (original): The method of claim 1 wherein the compound has the structure



or



wherein, hydrogen atoms at the 5 (if present), 8, 9 and 14 positions respectively are in the $\alpha, \alpha, \alpha, \alpha$, $\alpha, \alpha, \alpha, \beta$, $\alpha, \alpha, \beta, \alpha$, $\alpha, \beta, \alpha, \alpha$, $\alpha, \alpha, \beta, \beta$, $\alpha, \beta, \alpha, \beta$, $\alpha, \beta, \beta, \alpha$ or $\alpha, \beta, \beta, \beta$ configurations.

3. (original): The method of claim 2 wherein hydrogen atoms at the 5 (if present), 8, 9 and 14 positions respectively are in the $\alpha, \beta, \alpha, \alpha$ configurations.

4. (original): The method of claim 1 wherein

(1) R^3 is a halogen and R^1 , R^2 , and one or both R^4 independently are -OH, $-OR^{PR}$, an ether an ester having the structure steroid-O-C(O)-organic moiety, carbonate, carbamate having the structure steroid-O-C(O)- NR^{PR} -organic moiety, or an amino acid ester or peptide having the structure (A) R^{32} -NH- $\{[C(R^{29})(R^{30})]_b-C(O)-N(R^{31})\}_f-[C(R^{29})(R^{30})]_a-C(O)-O$ -steroid, (B) R^{33} -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_g-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-O$ -steroid, or (C) R^{33} -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_e-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-C(O)-O$ -steroid, where each R^{29} , R^{30} and R^{31} is independently selected and each R^{29} independently is -H or a C1-20 organic moiety, each R^{30} independently is the side chain of an amino acid, each R^{31} is -H or a protecting group, R^{32} and R^{33} independently are -H, a protecting group, an ester or an amide where each atom or group is independently chosen, a, b, c and d independently are 1, 2, 3, 4 or 5, and e, f and g independently are an integer from 0 to 1000, or

(2) R^1 , R^2 , R^3 and one or both R^4 independently are -OH, $-OR^{PR}$, an ether, an ester having the structure steroid-O-C(O)-organic moiety,

carbonate, carbamate having the structure steroid-O-C(O)-NR^{PR}-organic moiety or an amino acid or peptide having the structure (A) R³²-NH-
5 { [C(R²⁹)(R³⁰)]_b-C(O)-N(R³¹) }_f-[C(R²⁹)(R³⁰)]_a-C(O)-O-steroid, (B) R³³-O-{C(O)-
[C(R²⁹)(R³⁰)]_d-N(R³¹) }_g-C(O)-[C(R²⁹)(R³⁰)]_c-N(R³¹)-O-steroid, or (C) R³³-O-
{C(O)-[C(R²⁹)(R³⁰)]_d-N(R³¹) }_e-C(O)-[C(R²⁹)(R³⁰)]_c-N(R³¹)-C(O)-O-steroid, or

(3) R¹ is -H and R², R³ and one or both R⁴ are not -H, provided that the compound is not 7 α ,17 α -methyl-16-methylene-17 β -hydroxy-19-norandrost-4-ene, 7 α -methyl-16-methylene-17 β -hydroxy-17 α -ethynyl-19-norandrost-4-ene
10 or 7 α -methyl-16-methylene-17-oxo-19-norandrost-4-ene or an ester or ether of any of these compounds, or

(4) R¹ is -CN, =CH₂, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure
15 steroid-C(S)-O-organic moiety or thioacetal having the structure steroid-C(O)-S-organic moiety, and R³ and one or both R⁴ are not -H, provided that R¹ is not optionally substituted phenyl and provided that if R¹ is -C(O)-OCH₃, then R⁴ is not -CH₃ or -C(O)-CH₃, or

(5) R¹ is a halogen and R³ and one or both R⁴ are not -H, provided that
20 either R³ is -OH, -OR^{PR}, an ether, an ester having the structure steroid-O-C(O)-organic moiety, carbonate (O-C(O)-O-), carbamate, a halogen, -NH₂, -N(R^{PR})₂, -NO₂, -N₃, =NOH, =NOC(O)CH₃, an amide, -SH, -SR^{PR}, =S, thioether, thioacetal -CN, acyl, thioacyl, or an amino acid or peptide having the structure (A) R³²-NH-
25 { [C(R²⁹)(R³⁰)]_b-C(O)-N(R³¹) }_f-[C(R²⁹)(R³⁰)]_a-C(O)-O-steroid, (B) R³³-O-{C(O)-[C(R²⁹)(R³⁰)]_d-N(R³¹) }_g-C(O)-[C(R²⁹)(R³⁰)]_c-N(R³¹)-O-steroid, or (C) R³³-O-{C(O)-[C(R²⁹)(R³⁰)]_d-N(R³¹) }_e-C(O)-[C(R²⁹)(R³⁰)]_c-N(R³¹)-C(O)-O-steroid, or one or both R⁴ independently are -OH, -OR^{PR}, an ether, an ester having the structure steroid-O-C(O)-organic moiety, carbonate, carbamate, a halogen, -NH₂, -N(R^{PR})₂, -NO₂, -N₃, =NOH, =NOC(O)CH₃,
30 amide having the structure steroid-NR^{PR}-C(O)-organic moiety, -SH, -SR^{PR},

=S, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-O-C(O)-organic moiety, thioester having the structure steroid-O-C(S)-organic moiety, thioacetal having the structure steroid-S-C(O)-organic moiety, or an amino acid or peptide having the structure (A) R^{32} -NH- $\{[C(R^{29})(R^{30})]_b-C(O)-N(R^{31})\}_f$ - $[C(R^{29})(R^{30})]_a-C(O)-O$ -steroid, (B) R^{33} -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_g-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-O$ -steroid, or (C) R^{33} -O- $\{C(O)-[C(R^{29})(R^{30})]_d-N(R^{31})\}_e-C(O)-[C(R^{29})(R^{30})]_c-N(R^{31})-C(O)-O$ -steroid, or

(6) R^1 is a halogen, $-NH_2$, $-N(R^{PR})_2$, $-NO_2$, $=NOH$, $=NOC(O)CH_3$, amide having the structure steroid- $NR^{PR}-C(O)$ -organic moiety, carbamate having the structure steroid- $NR^{PR}-C(O)-O$ -organic moiety, $-SH$, $-SR^{PR}$, $=S$, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, $-CN$, $=CH_2$, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety or thioacetal having the structure steroid-C(O)-S-organic moiety and R^2 , R^3 and one or both R^4 are not $-H$, or

(7) R^1 is a halogen, $-NH_2$, $-NO_2$, $-N_3$, $=NOH$, $=NOC(O)CH_3$, amide having the structure steroid- $NR^{PR}-C(O)$ -organic moiety, carbamate having the structure steroid- $NR^{PR}-C(O)-O$ -organic moiety, $-SR^{PR}$, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, $-CN$, $=CH_2$, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R^2 and one or both R^4 are not $-H$ and R^9 is not $-CH_2-$, provided that if one R^4 is $-CH_2CH_3$, then R^3 is not $=O$, or

(8) R^1 is a halogen, $-NH_2$, $-N(R^{PR})_2$, $-NO_2$, $-N_3$, $=NOH$, $=NOC(O)CH_3$, amide having the structure steroid- $NR^{PR}-C(O)$ -organic moiety, carbamate

having the structure steroid-NR^{PR}-C(O)-O-organic moiety, -SR^{PR}, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, =CH₂, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R² and one or both R⁴ are not -H and R⁷ is not -CH₂-, or

(9) R¹ is a halogen, -NH₂, -N(R^{PR})₂, -NO₂, -N₃, =NOH, =NOC(O)CH₃, amide having the structure steroid-NR^{PR}-C(O)-organic moiety, carbamate having the structure steroid-NR^{PR}-C(O)-O-organic moiety, -SR^{PR}, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, =CH₂, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R² and one or both R⁴ are not -H, and R⁶ is not -CH₃, provided that R¹ is not fluorine if R² is =O, one R⁴ is -OH or -O-C(O)-CH₃, and R⁶ is -CH₂OH or -CH₂O-C(O)-CH₃, or

(10) R¹ is -H, R² and one or both R⁴ are not -H and R⁹ is not -CH₂-, provided that R⁹ is not -C(O)- or -CH(OH)- when R² is -OH in the α-configuration, both R⁴ are -H and alkyl and a double bond is present at the 4-5 position, or

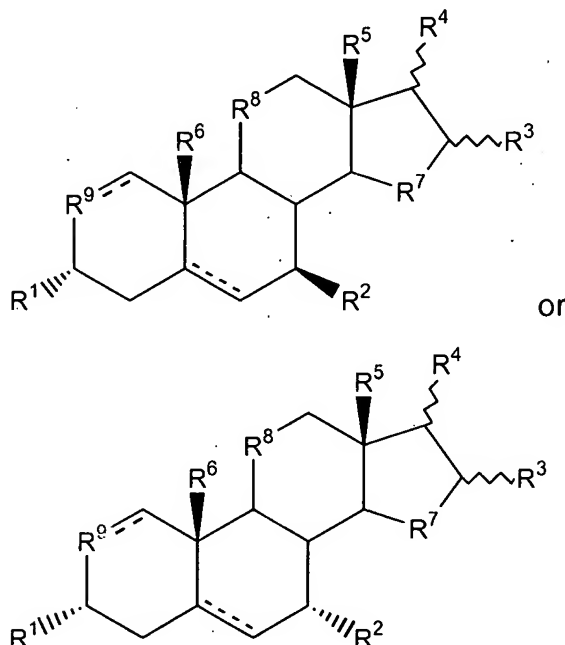
(11) R¹ is -H, R² is not -H and R⁸ and R⁹ are not -CH₂-, or

(12) R¹ is a halogen, -NH₂, -N(R^{PR})₂, -NO₂, -N₃, =NOH, =NOC(O)CH₃, amide having the structure steroid-NR^{PR}-C(O)-organic moiety, carbamate having the structure steroid-NR^{PR}-C(O)-O-organic moiety, -SH, -SR^{PR}, =S, thioether, thioacetal having the structure steroid-S-C(O)-organic moiety, -CN, =CH₂, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the

structure steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R^3 and one or both R^4 are not -H, and R^6 is not -

5 CH_3 , or

(13) the compound has the structure



wherein R^1 is -OH, -OR^{PR}, -SH, -SR^{PR}, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-
 10 (R¹³)₃, -CN, -NO₂, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,

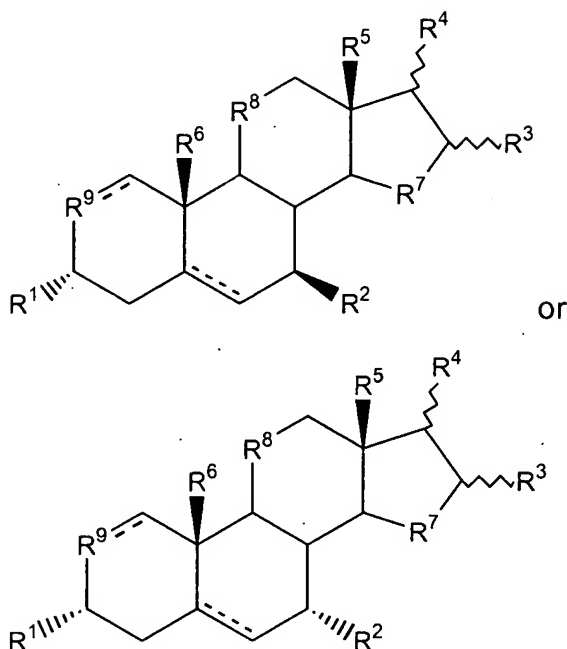
15 R^2 is -H, -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a

phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,

R^3 is -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, provided that the compound is not 3 α -bromo-16 α -methoxyandrost-5-ene-17-one, and

R^4 is -H, -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or

(14) the compound has the structure



- 5 wherein R^1 is -OH, -OR^{PR}, -SH, -SR^{PR}, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
- 10 R^2 is -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an
- 15 R^3 is -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an
- 20 R^4 is -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an

optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,
an optionally substituted monosaccharide, an optionally substituted
oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
5 and

R^3 is -H, -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an
ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a
phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a
10 peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a
carbamate, a thioacetal, an optionally substituted alkyl group, an optionally
substituted alkenyl group, an optionally substituted alkynyl group, an
optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,
an optionally substituted monosaccharide, an optionally substituted
15 oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
provided that the compound is not 3 α -bromo-16 α -methoxyandrost-5-ene-17-
one, and

R^4 is -H, -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an
20 ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a
phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a
peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a
carbamate, a thioacetal, an optionally substituted alkyl group, an optionally
substituted alkenyl group, an optionally substituted alkynyl group, an
25 optionally substituted aryl moiety, an optionally substituted heteroaryl moiety,
an optionally substituted monosaccharide, an optionally substituted
oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer,
or

(15) R^1 is a halogen, -NH₂, -N(R^{PR})₂, -NO₂, -N₃, =NOH, amide having
30 the structure steroid-NR^{PR}-C(O)-organic moiety, carbamate having the
structure steroid-NR^{PR}-C(O)-O-organic moiety, -SR^{PR}, thioether, thioacetal

having the structure steroid-S-C(O)-organic moiety, -CN, =CH₂, acyl, thioacyl, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, ester having the structure
5 steroid-C(O)-O-organic moiety, thioester having the structure steroid-C(S)-O-organic moiety, or thioacetal having the structure steroid-C(O)-S-organic moiety and R², one or both R⁴ and R⁷ are not -H or -CH₂-, provided that if R¹ is -NH₂ or -N(R^{PR})₂, then R² is not methyl, or

(16) R¹ is -H and R³, one or both R⁴ are not -H and R⁸ is not -CH₂-, or

10 (17) R¹ is -H and R³, one or both R⁴ are not -H and R⁹ is not -CH₂-, or

(18) R¹ is -H and R², one or both R⁴ are not -H and R⁸ is not -CH₂-, or

(19) R¹ is a halogen, R² and R⁸ are not -H or -CH₂- and one or both R⁴

independently are -OR^{PR}, ether, an ester having the structure steroid-O-C(O)-organic moiety, carbonate (O-C(O)-O-), carbamate having the structure

15 steroid-O-C(O)-NR^{PR}-organic moiety, optionally substituted monosaccharide, optionally substituted oligosaccharide, a nucleoside, a nucleotide, an

oligonucleotide, a polymer, or an amino acid or peptide having the structure

(A) R³²-NH-[[C(R²⁹)(R³⁰)]_b-C(O)-N(R³¹)]_f-[C(R²⁹)(R³⁰)]_a-C(O)-O-steroid, (B)

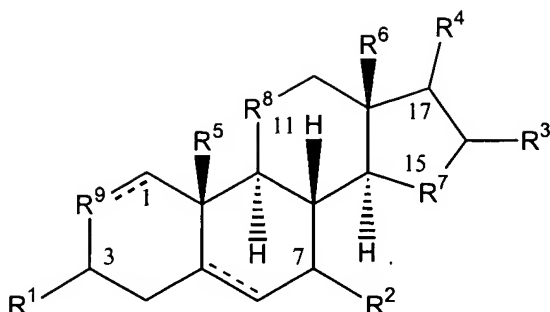
R³³-O-[C(O)-[C(R²⁹)(R³⁰)]_d-N(R³¹)]_g-C(O)-[C(R²⁹)(R³⁰)]_c-N(R³¹)-O-steroid, or

20 (C) R³³-O-[C(O)-[C(R²⁹)(R³⁰)]_d-N(R³¹)]_e-C(O)-[C(R²⁹)(R³⁰)]_c-N(R³¹)-C(O)-O-steroid.

5. (original): The method of claim 4 wherein hydrogen atoms at the 5 (if present), 8, 9 and 14 positions respectively are in the $\alpha,\beta,\alpha,\alpha$ configurations.

25

6. (currently amended): The method of claim 1 wherein the compound has the structure



wherein, R⁵ and R⁶ independently are -CH₃, -H or -CH₂OH, R⁷, R⁸ and R⁹ independently are -CH₂-, -O-, -NH- or -S-, R¹, R², R³ and R⁴ respectively are in the β,β,α,β, α,β,α,β, β,α,α,β, β,β,β,β, or β,β,α,α configurations;

R¹ is -OH, -SH, =S, -OCH₃, -O-S(O)(O)-O-Na⁺, -O-S(O)(O)-OC₂H₅, -CH₃, -H, or -OC(O)C(CH₃)₃;

R² is -H, -OH, =O, -CH₃, -OCH₃, -OC₂H₅, -OCH₂CH₂CH₃, -OCH₂CH₂CH₂CH₃, -Cl, or -Br;

R³ is -Br, -Cl, -I, -F, -OH, =O, -OC(O)CH₃, -OC(O)CH₂CH₃, or -OC(O)CH₂CH₂CH₃;

R⁴ is =O, -OH, -F, -Cl, -Br, -I, -OC(O)CH₃, -OC(O)CH₂CH₃, or -OC(O)CH₂CH₂CH₃. and the compound's structure is designated by numbers assigned to R¹, R², R³ and R⁴ according to the convention, R¹.R².R³.R⁴;

wherein the structures for R¹, R², R³ and R⁴ are designated by numbers respectively and, for R¹, structure 1 is -OH, structure 3 is -SH, structure 4 is =S, structure 5 is -OCH₃, structure 6 is -O-S(O)(O)-O-Na⁺, structure 7 is -O-S(O)(O)-OC₂H₅, structure 8 is -CH₃, structure 9 is -H, and structure 10 is -OC(O)C(CH₃)₃, and

for R², structure 1 is -H, structure 2 is -OH, structure 3 is =O, structure 4 is -CH₃, structure 5 is -OCH₃, structure 6 is -OC₂H₅, structure 7 is -OCH₂CH₂CH₃, structure 8 is -OCH₂CH₂CH₂CH₃, structure 9 is -Cl, and structure 10 is -Br, and

for R³, structure 1 is -Br, structure 2 is -Cl, structure 3 is -I, structure 4 is -F, structure 5 is -H, structure 6 is -OH, structure 7 is =O, structure 8 is -

~~OC(O)CH₃, structure 9 is OC(O)CH₂CH₃, and structure 10 is~~

~~OC(O)CH₂CH₂CH₃, and~~

~~——— for R⁴, structure 1 is =O, structure 2 is OH, structure 3 is H, structure~~

5 ~~4 is F, structure 5 is Cl, structure 6 is Br, structure 7 is I, structure 8 is~~

~~OC(O)CH₃, structure 9 is OC(O)CH₂CH₃, and structure 10 is~~

~~OC(O)CH₂CH₂CH₃, wherein the compound is 1.1.1.1, 1.1.1.2, 1.1.1.3,~~

~~1.1.1.4, 1.1.1.5, 1.1.1.6, 1.1.1.7, 1.1.1.8, 1.1.1.9, 1.1.1.10, 1.1.2.1, 1.1.2.2,~~

~~1.1.2.3, 1.1.2.4, 1.1.2.5, 1.1.2.6, 1.1.2.7, 1.1.2.8, 1.1.2.9, 1.1.2.10, 1.1.3.1,~~

10 ~~1.1.3.2, 1.1.3.3, 1.1.3.4, 1.1.3.5, 1.1.3.6, 1.1.3.7, 1.1.3.8, 1.1.3.9, 1.1.3.10,~~

~~1.1.4.1, 1.1.4.2, 1.1.4.3, 1.1.4.4, 1.1.4.5, 1.1.4.6, 1.1.4.7, 1.1.4.8, 1.1.4.9,~~

~~1.1.4.10, 1.1.5.1, 1.1.5.2, 1.1.5.3, 1.1.5.4, 1.1.5.5, 1.1.5.6, 1.1.5.7, 1.1.5.8,~~

~~1.1.5.9, 1.1.5.10, 1.1.6.1, 1.1.6.2, 1.1.6.3, 1.1.6.4, 1.1.6.5, 1.1.6.6, 1.1.6.7,~~

~~1.1.6.8, 1.1.6.9, 1.1.6.10, 1.1.7.1, 1.1.7.2, 1.1.7.3, 1.1.7.4, 1.1.7.5, 1.1.7.6,~~

15 ~~1.1.7.7, 1.1.7.8, 1.1.7.9, 1.1.7.10, 1.1.8.1, 1.1.8.2, 1.1.8.3, 1.1.8.4, 1.1.8.5,~~

~~1.1.8.6, 1.1.8.7, 1.1.8.8, 1.1.8.9, 1.1.8.10, 1.1.9.1, 1.1.9.2, 1.1.9.3, 1.1.9.4,~~

~~1.1.9.5, 1.1.9.6, 1.1.9.7, 1.1.9.8, 1.1.9.9, 1.1.9.10, 1.1.10.1, 1.1.10.2, 1.1.10.3,~~

~~1.1.10.4, 1.1.10.5, 1.1.10.6, 1.1.10.7, 1.1.10.8, 1.1.10.9, 1.1.10.10, 1.2.1.1,~~

~~1.2.1.2, 1.2.1.3, 1.2.1.4, 1.2.1.5, 1.2.1.6, 1.2.1.7, 1.2.1.8, 1.2.1.9, 1.2.1.10,~~

20 ~~1.2.2.1, 1.2.2.2, 1.2.2.3, 1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7, 1.2.2.8, 1.2.2.9,~~

~~1.2.2.10, 1.2.3.1, 1.2.3.2, 1.2.3.3, 1.2.3.4, 1.2.3.5, 1.2.3.6, 1.2.3.7, 1.2.3.8,~~

~~1.2.3.9, 1.2.3.10, 1.2.4.1, 1.2.4.2, 1.2.4.3, 1.2.4.4, 1.2.4.5, 1.2.4.6, 1.2.4.7,~~

~~1.2.4.8, 1.2.4.9, 1.2.4.10, 1.2.5.1, 1.2.5.2, 1.2.5.3, 1.2.5.4, 1.2.5.5, 1.2.5.6,~~

~~1.2.5.7, 1.2.5.8, 1.2.5.9, 1.2.5.10, 1.2.6.1, 1.2.6.2, 1.2.6.3, 1.2.6.4, 1.2.6.5,~~

25 ~~1.2.6.6, 1.2.6.7, 1.2.6.8, 1.2.6.9, 1.2.6.10, 1.2.7.1, 1.2.7.2, 1.2.7.3, 1.2.7.4,~~

~~1.2.7.5, 1.2.7.6, 1.2.7.7, 1.2.7.8, 1.2.7.9, 1.2.7.10, 1.2.8.1, 1.2.8.2, 1.2.8.3,~~

~~1.2.8.4, 1.2.8.5, 1.2.8.6, 1.2.8.7, 1.2.8.8, 1.2.8.9, 1.2.8.10, 1.2.9.1, 1.2.9.2,~~

~~1.2.9.3, 1.2.9.4, 1.2.9.5, 1.2.9.6, 1.2.9.7, 1.2.9.8, 1.2.9.9, 1.2.9.10, 1.2.10.1,~~

~~1.2.10.2, 1.2.10.3, 1.2.10.4, 1.2.10.5, 1.2.10.6, 1.2.10.7, 1.2.10.8, 1.2.10.9,~~

30 ~~1.2.10.10, 1.3.1.1, 1.3.1.2, 1.3.1.3, 1.3.1.4, 1.3.1.5, 1.3.1.6, 1.3.1.7, 1.3.1.8,~~

~~1.3.1.9, 1.3.1.10, 1.3.2.1, 1.3.2.2, 1.3.2.3, 1.3.2.4, 1.3.2.5, 1.3.2.6, 1.3.2.7,~~

~~1.3.2.8, 1.3.2.9, 1.3.2.10, 1.3.3.1, 1.3.3.2, 1.3.3.3, 1.3.3.4, 1.3.3.5, 1.3.3.6,
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5 1.3.5.5, 1.3.5.6, 1.3.5.7, 1.3.5.8, 1.3.5.9, 1.3.5.10, 1.3.6.1, 1.3.6.2, 1.3.6.3,
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~~1.5.9.5, 1.5.9.6, 1.5.9.7, 1.5.9.8, 1.5.9.9, 1.5.9.10, 1.5.10.1, 1.5.10.2, 1.5.10.3,
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1.7.8.2, 1.7.8.3, 1.7.8.4, 1.7.8.5, 1.7.8.6, 1.7.8.7, 1.7.8.8, 1.7.8.9, 1.7.8.10,
1.7.9.1, 1.7.9.2, 1.7.9.3, 1.7.9.4, 1.7.9.5, 1.7.9.6, 1.7.9.7, 1.7.9.8, 1.7.9.9,
25 1.7.9.10, 1.7.10.1, 1.7.10.2, 1.7.10.3, 1.7.10.4, 1.7.10.5, 1.7.10.6, 1.7.10.7,
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1.8.1.7, 1.8.1.8, 1.8.1.9, 1.8.1.10, 1.8.2.1, 1.8.2.2, 1.8.2.3, 1.8.2.4, 1.8.2.5,
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5 ~~1.8.8.9, 1.8.8.10, 1.8.9.1, 1.8.9.2, 1.8.9.3, 1.8.9.4, 1.8.9.5, 1.8.9.6, 1.8.9.7,~~
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~~6.8.10.6, 6.8.10.7, 6.8.10.8, 6.8.10.9, 6.8.10.10, 6.9.1.1, 6.9.1.2, 6.9.1.3,~~
~~6.9.1.4, 6.9.1.5, 6.9.1.6, 6.9.1.7, 6.9.1.8, 6.9.1.9, 6.9.1.10, 6.9.2.1, 6.9.2.2,~~
15 ~~6.9.2.3, 6.9.2.4, 6.9.2.5, 6.9.2.6, 6.9.2.7, 6.9.2.8, 6.9.2.9, 6.9.2.10, 6.9.3.1,~~
~~6.9.3.2, 6.9.3.3, 6.9.3.4, 6.9.3.5, 6.9.3.6, 6.9.3.7, 6.9.3.8, 6.9.3.9, 6.9.3.10,~~
~~6.9.4.1, 6.9.4.2, 6.9.4.3, 6.9.4.4, 6.9.4.5, 6.9.4.6, 6.9.4.7, 6.9.4.8, 6.9.4.9,~~
~~6.9.4.10, 6.9.5.1, 6.9.5.2, 6.9.5.3, 6.9.5.4, 6.9.5.5, 6.9.5.6, 6.9.5.7, 6.9.5.8,~~
~~6.9.5.9, 6.9.5.10, 6.9.6.1, 6.9.6.2, 6.9.6.3, 6.9.6.4, 6.9.6.5, 6.9.6.6, 6.9.6.7,~~
20 ~~6.9.6.8, 6.9.6.9, 6.9.6.10, 6.9.7.1, 6.9.7.2, 6.9.7.3, 6.9.7.4, 6.9.7.5, 6.9.7.6,~~
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~~6.9.10.4, 6.9.10.5, 6.9.10.6, 6.9.10.7, 6.9.10.8, 6.9.10.9, 6.9.10.10, 6.10.1.1,~~
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~~6.10.3.6, 6.10.3.7, 6.10.3.8, 6.10.3.9, 6.10.3.10, 6.10.4.1, 6.10.4.2, 6.10.4.3,~~
~~6.10.4.4, 6.10.4.5, 6.10.4.6, 6.10.4.7, 6.10.4.8, 6.10.4.9, 6.10.4.10, 6.10.5.1,~~
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~~7.5.9.5, 7.5.9.6, 7.5.9.7, 7.5.9.8, 7.5.9.9, 7.5.9.10, 7.5.10.1, 7.5.10.2, 7.5.10.3,~~
~~7.5.10.4, 7.5.10.5, 7.5.10.6, 7.5.10.7, 7.5.10.8, 7.5.10.9, 7.5.10.10, 7.6.1.1,~~
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5 ~~7.6.2.1, 7.6.2.2, 7.6.2.3, 7.6.2.4, 7.6.2.5, 7.6.2.6, 7.6.2.7, 7.6.2.8, 7.6.2.9,~~
~~7.6.2.10, 7.6.3.1, 7.6.3.2, 7.6.3.3, 7.6.3.4, 7.6.3.5, 7.6.3.6, 7.6.3.7, 7.6.3.8,~~
~~7.6.3.9, 7.6.3.10, 7.6.4.1, 7.6.4.2, 7.6.4.3, 7.6.4.4, 7.6.4.5, 7.6.4.6, 7.6.4.7,~~
~~7.6.4.8, 7.6.4.9, 7.6.4.10, 7.6.5.1, 7.6.5.2, 7.6.5.3, 7.6.5.4, 7.6.5.5, 7.6.5.6,~~
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10 ~~7.6.6.6, 7.6.6.7, 7.6.6.8, 7.6.6.9, 7.6.6.10, 7.6.7.1, 7.6.7.2, 7.6.7.3, 7.6.7.4,~~
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~~7.9.2.3, 7.9.2.4, 7.9.2.5, 7.9.2.6, 7.9.2.7, 7.9.2.8, 7.9.2.9, 7.9.2.10, 7.9.3.1,~~
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15 ~~7.9.7.7, 7.9.7.8, 7.9.7.9, 7.9.7.10, 7.9.8.1, 7.9.8.2, 7.9.8.3, 7.9.8.4, 7.9.8.5,~~
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~~7.9.10.4, 7.9.10.5, 7.9.10.6, 7.9.10.7, 7.9.10.8, 7.9.10.9, 7.9.10.10, 7.10.1.1,~~
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~~10.5.2.10, 10.5.3.1, 10.5.3.2, 10.5.3.3, 10.5.3.4, 10.5.3.5, 10.5.3.6, 10.5.3.7,~~
~~10.5.3.8, 10.5.3.9, 10.5.3.10, 10.5.4.1, 10.5.4.2, 10.5.4.3, 10.5.4.4, 10.5.4.5,~~
15 ~~10.5.4.6, 10.5.4.7, 10.5.4.8, 10.5.4.9, 10.5.4.10, 10.5.5.1, 10.5.5.2, 10.5.5.3,~~
~~10.5.5.4, 10.5.5.5, 10.5.5.6, 10.5.5.7, 10.5.5.8, 10.5.5.9, 10.5.5.10, 10.5.6.1,~~
~~10.5.6.2, 10.5.6.3, 10.5.6.4, 10.5.6.5, 10.5.6.6, 10.5.6.7, 10.5.6.8, 10.5.6.9,~~
~~10.5.6.10, 10.5.7.1, 10.5.7.2, 10.5.7.3, 10.5.7.4, 10.5.7.5, 10.5.7.6, 10.5.7.7,~~
~~10.5.7.8, 10.5.7.9, 10.5.7.10, 10.5.8.1, 10.5.8.2, 10.5.8.3, 10.5.8.4, 10.5.8.5,~~
20 ~~10.5.8.6, 10.5.8.7, 10.5.8.8, 10.5.8.9, 10.5.8.10, 10.5.9.1, 10.5.9.2, 10.5.9.3,~~
~~10.5.9.4, 10.5.9.5, 10.5.9.6, 10.5.9.7, 10.5.9.8, 10.5.9.9, 10.5.9.10, 10.5.10.1,~~
~~10.5.10.2, 10.5.10.3, 10.5.10.4, 10.5.10.5, 10.5.10.6, 10.5.10.7, 10.5.10.8,~~
~~10.5.10.9, 10.5.10.10, 10.6.1.1, 10.6.1.2, 10.6.1.3, 10.6.1.4, 10.6.1.5,~~
~~10.6.1.6, 10.6.1.7, 10.6.1.8, 10.6.1.9, 10.6.1.10, 10.6.2.1, 10.6.2.2, 10.6.2.3,~~
25 ~~10.6.2.4, 10.6.2.5, 10.6.2.6, 10.6.2.7, 10.6.2.8, 10.6.2.9, 10.6.2.10, 10.6.3.1,~~
~~10.6.3.2, 10.6.3.3, 10.6.3.4, 10.6.3.5, 10.6.3.6, 10.6.3.7, 10.6.3.8, 10.6.3.9,~~
~~10.6.3.10, 10.6.4.1, 10.6.4.2, 10.6.4.3, 10.6.4.4, 10.6.4.5, 10.6.4.6, 10.6.4.7,~~
~~10.6.4.8, 10.6.4.9, 10.6.4.10, 10.6.5.1, 10.6.5.2, 10.6.5.3, 10.6.5.4, 10.6.5.5,~~
~~10.6.5.6, 10.6.5.7, 10.6.5.8, 10.6.5.9, 10.6.5.10, 10.6.6.1, 10.6.6.2, 10.6.6.3,~~
30 ~~10.6.6.4, 10.6.6.5, 10.6.6.6, 10.6.6.7, 10.6.6.8, 10.6.6.9, 10.6.6.10, 10.6.7.1,~~
~~10.6.7.2, 10.6.7.3, 10.6.7.4, 10.6.7.5, 10.6.7.6, 10.6.7.7, 10.6.7.8, 10.6.7.9,~~

~~10.6.7.10, 10.6.8.1, 10.6.8.2, 10.6.8.3, 10.6.8.4, 10.6.8.5, 10.6.8.6, 10.6.8.7,
10.6.8.8, 10.6.8.9, 10.6.8.10, 10.6.9.1, 10.6.9.2, 10.6.9.3, 10.6.9.4, 10.6.9.5,
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5 10.6.10.3, 10.6.10.4, 10.6.10.5, 10.6.10.6, 10.6.10.7, 10.6.10.8, 10.6.10.9,
10.6.10.10, 10.7.1.1, 10.7.1.2, 10.7.1.3, 10.7.1.4, 10.7.1.5, 10.7.1.6, 10.7.1.7,
10.7.1.8, 10.7.1.9, 10.7.1.10, 10.7.2.1, 10.7.2.2, 10.7.2.3, 10.7.2.4, 10.7.2.5,
10.7.2.6, 10.7.2.7, 10.7.2.8, 10.7.2.9, 10.7.2.10, 10.7.3.1, 10.7.3.2, 10.7.3.3,
10.7.3.4, 10.7.3.5, 10.7.3.6, 10.7.3.7, 10.7.3.8, 10.7.3.9, 10.7.3.10, 10.7.4.1,
10 10.7.4.2, 10.7.4.3, 10.7.4.4, 10.7.4.5, 10.7.4.6, 10.7.4.7, 10.7.4.8, 10.7.4.9,
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10.7.5.8, 10.7.5.9, 10.7.5.10, 10.7.6.1, 10.7.6.2, 10.7.6.3, 10.7.6.4, 10.7.6.5,
10.7.6.6, 10.7.6.7, 10.7.6.8, 10.7.6.9, 10.7.6.10, 10.7.7.1, 10.7.7.2, 10.7.7.3,
10.7.7.4, 10.7.7.5, 10.7.7.6, 10.7.7.7, 10.7.7.8, 10.7.7.9, 10.7.7.10, 10.7.8.1,
15 10.7.8.2, 10.7.8.3, 10.7.8.4, 10.7.8.5, 10.7.8.6, 10.7.8.7, 10.7.8.8, 10.7.8.9,
10.7.8.10, 10.7.9.1, 10.7.9.2, 10.7.9.3, 10.7.9.4, 10.7.9.5, 10.7.9.6, 10.7.9.7,
10.7.9.8, 10.7.9.9, 10.7.9.10, 10.7.10.1, 10.7.10.2, 10.7.10.3, 10.7.10.4,
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10.8.1.2, 10.8.1.3, 10.8.1.4, 10.8.1.5, 10.8.1.6, 10.8.1.7, 10.8.1.8, 10.8.1.9,
20 10.8.1.10, 10.8.2.1, 10.8.2.2, 10.8.2.3, 10.8.2.4, 10.8.2.5, 10.8.2.6, 10.8.2.7,
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30 10.8.9.10, 10.8.10.1, 10.8.10.2, 10.8.10.3, 10.8.10.4, 10.8.10.5, 10.8.10.6,
10.8.10.7, 10.8.10.8, 10.8.10.9, 10.8.10.10, 10.9.1.1, 10.9.1.2, 10.9.1.3,~~

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~~10.9.2.2, 10.9.2.3, 10.9.2.4, 10.9.2.5, 10.9.2.6, 10.9.2.7, 10.9.2.8, 10.9.2.9,~~
~~10.9.2.10, 10.9.3.1, 10.9.3.2, 10.9.3.3, 10.9.3.4, 10.9.3.5, 10.9.3.6, 10.9.3.7,~~
5 ~~10.9.3.8, 10.9.3.9, 10.9.3.10, 10.9.4.1, 10.9.4.2, 10.9.4.3, 10.9.4.4, 10.9.4.5,~~
~~10.9.4.6, 10.9.4.7, 10.9.4.8, 10.9.4.9, 10.9.4.10, 10.9.5.1, 10.9.5.2, 10.9.5.3,~~
~~10.9.5.4, 10.9.5.5, 10.9.5.6, 10.9.5.7, 10.9.5.8, 10.9.5.9, 10.9.5.10, 10.9.6.1,~~
~~10.9.6.2, 10.9.6.3, 10.9.6.4, 10.9.6.5, 10.9.6.6, 10.9.6.7, 10.9.6.8, 10.9.6.9,~~
~~10.9.6.10, 10.9.7.1, 10.9.7.2, 10.9.7.3, 10.9.7.4, 10.9.7.5, 10.9.7.6, 10.9.7.7,~~
10 ~~10.9.7.8, 10.9.7.9, 10.9.7.10, 10.9.8.1, 10.9.8.2, 10.9.8.3, 10.9.8.4, 10.9.8.5,~~
~~10.9.8.6, 10.9.8.7, 10.9.8.8, 10.9.8.9, 10.9.8.10, 10.9.9.1, 10.9.9.2, 10.9.9.3,~~
~~10.9.9.4, 10.9.9.5, 10.9.9.6, 10.9.9.7, 10.9.9.8, 10.9.9.9, 10.9.9.10, 10.9.10.1,~~
~~10.9.10.2, 10.9.10.3, 10.9.10.4, 10.9.10.5, 10.9.10.6, 10.9.10.7, 10.9.10.8,~~
~~10.9.10.9, 10.9.10.10, 10.10.1.1, 10.10.1.2, 10.10.1.3, 10.10.1.4, 10.10.1.5,~~
15 ~~10.10.1.6, 10.10.1.7, 10.10.1.8, 10.10.1.9, 10.10.1.10, 10.10.2.1, 10.10.2.2,~~
~~10.10.2.3, 10.10.2.4, 10.10.2.5, 10.10.2.6, 10.10.2.7, 10.10.2.8, 10.10.2.9,~~
~~10.10.2.10, 10.10.3.1, 10.10.3.2, 10.10.3.3, 10.10.3.4, 10.10.3.5, 10.10.3.6,~~
~~10.10.3.7, 10.10.3.8, 10.10.3.9, 10.10.3.10, 10.10.4.1, 10.10.4.2, 10.10.4.3,~~
~~10.10.4.4, 10.10.4.5, 10.10.4.6, 10.10.4.7, 10.10.4.8, 10.10.4.9, 10.10.4.10,~~
20 ~~10.10.5.1, 10.10.5.2, 10.10.5.3, 10.10.5.4, 10.10.5.5, 10.10.5.6, 10.10.5.7,~~
~~10.10.5.8, 10.10.5.9, 10.10.5.10, 10.10.6.1, 10.10.6.2, 10.10.6.3, 10.10.6.4,~~
~~10.10.6.5, 10.10.6.6, 10.10.6.7, 10.10.6.8, 10.10.6.9, 10.10.6.10, 10.10.7.1,~~
~~10.10.7.2, 10.10.7.3, 10.10.7.4, 10.10.7.5, 10.10.7.6, 10.10.7.7, 10.10.7.8,~~
~~10.10.7.9, 10.10.7.10, 10.10.8.1, 10.10.8.2, 10.10.8.3, 10.10.8.4, 10.10.8.5,~~
25 ~~10.10.8.6, 10.10.8.7, 10.10.8.8, 10.10.8.9, 10.10.8.10, 10.10.9.1, 10.10.9.2,~~
~~10.10.9.3, 10.10.9.4, 10.10.9.5, 10.10.9.6, 10.10.9.7, 10.10.9.8, 10.10.9.9,~~
~~10.10.9.10, 10.10.10.1, 10.10.10.2, 10.10.10.3, 10.10.10.4, 10.10.10.5,~~
~~10.10.10.6, 10.10.10.7, 10.10.10.8, 10.10.10.9 or 10.10.10.10.~~

30 7. (original): The method of claim 6 wherein R^1 , R^2 , R^3 and R^4
respectively are in the $\beta, \beta, \alpha, \beta$ configurations.

8. (original): The method of claim 6 wherein R^1 , R^2 , R^3 and R^4 respectively are in the β,β,β,β configurations.

5 9. (original): The method of claim 6 wherein R^1 , R^2 , R^3 and R^4 respectively are in the $\alpha,\beta,\alpha,\beta$ configurations.

10 10. (original): The method of claim 6 wherein no double bond is present at the 1-2 or 5-6 positions, R^1 , R^2 , R^3 and R^4 respectively are in the β,β,α,β configurations, R^5 and R^6 are $-\text{CH}_3$ and R^7 , R^8 and R^9 are $-\text{CH}_2-$.

15 11. (original): The method of claim 6 wherein no double bond is present at the 1-2 position, a double bond is present at the 5-6 position, R^1 , R^2 , R^3 and R^4 respectively are in the β,β,α,β configurations, R^5 and R^6 are $-\text{CH}_3$ and R^7 , R^8 and R^9 are $-\text{CH}_2-$.

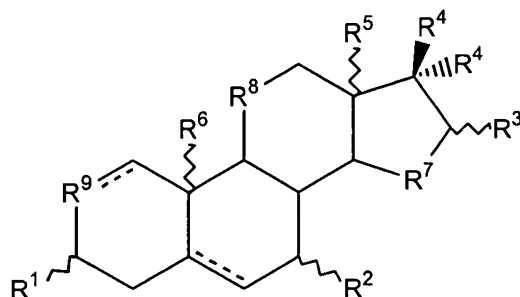
20 12. (original): The method of claim 6 wherein no double bond is present at the 1-2 position, a double bond is present at the 5-6 position, R^1 , R^2 , R^3 and R^4 respectively are in the $\beta,\alpha,\alpha,\beta$ configurations, R^5 and R^6 are $-\text{CH}_3$ and R^7 , R^8 and R^9 are $-\text{CH}_2-$.

25 13. (original): The method of claim 6 wherein no double bond is present at the 5-6 position, a double bond is present at the 1-2 position, R^1 , R^2 , R^3 and R^4 respectively are in the $\alpha,\beta,\alpha,\beta$ configurations, R^5 and R^6 are $-\text{CH}_3$ and R^7 , R^8 and R^9 are $-\text{CH}_2-$.

14. (original): The method of claim 6 wherein R^8 is $-\text{O}-$ or $-\text{NH}-$ and R^7 and R^9 are $-\text{CH}_2-$.

15. (original): The method of claim 6 wherein R^9 is -O- or -NH- and R^7 and R^8 are $-CH_2-$.

5 16. (currently amended): A method to treat a subject having, or susceptible to developing, a pathogen infection, wherein the method comprises administering an effective amount of a compound to the subject, wherein the pathogen infection is a hepatitis C virus, hepatitis B virus, Western Equine Encephalitis Virus, Japanese Encephalitis Virus, Yellow
 10 Fever Virus, a poxvirus, a Dengue virus, a papillomavirus, a togavirus, a flavivirus, an intracellular bacterium, a fungus, a yeast, a parasite, *Mycobacterium*, *Listeria*, *Brucella*, *Bartonella*, *Bordetella*, *Pseudomonas*, *Yersinia*, *Vibrio*, *Salmonella*, *Streptococcus*, *Staphylococcus*, *Candida*, *Aspergillus*, *Cryptococcus*, *Plasmodium*, *Trypanosoma*, *Leishmania*, a
 15 gastrointestinal nematode, a helminth, *Cryptosporidium*, *Toxoplasma*, *Pneumocystis*, *Schistosoma*, or *Strongyloides stercoralis* infection, and wherein the compound is 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one hemihydrate or the compound has the structure



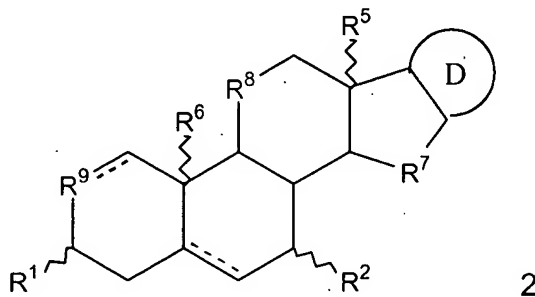
20 wherein, the dotted lines are optional double bonds and the hydrogen atom at the 5-position, if present, is in the α -configuration;

R^1 , R^2 , R^3 , R^4 , R^5 , R^6 and R^{10} independently are -H, -OH, -OR^{PR}, -SH, -SR^{PR}, =S, =CH₂, -N₃, -NH₂, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -NO₂, =NOH, =NOC(O)CH₃, -C(O)-CH₃, -F, -Cl, -Br, -I, an ester, a thioester, a
 25 phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a

thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or,

one more of R^2 , R^3 , R^4 , R^5 , R^6 , R^{10} , R^{15} , R^{17} and R^{18} independently are =O, or,

R^3 and both R^4 together comprise a structure of formula 2



R^7 is $-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{CHR}^{10}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{O}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{S}-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$, $-\text{O}-$, $-\text{O}-\text{CHR}^{10}-$, $-\text{S}-$, $-\text{S}-\text{CHR}^{10}-$, $-\text{NR}^{\text{PR}}-$ or $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$;

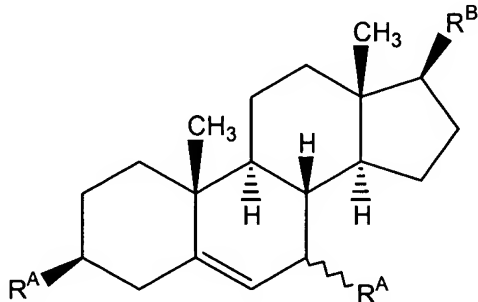
R^8 and R^9 independently are $-\text{CHR}^{10}-$, $-\text{CHR}^{10}-\text{CHR}^{10}-$, $-\text{O}-$, $-\text{O}-\text{CHR}^{10}-$, $-\text{S}-$, $-\text{S}-\text{CHR}^{10}-$, $-\text{NR}^{\text{PR}}-$ or $-\text{NR}^{\text{PR}}-\text{CHR}^{10}-$, or R^8 or R^9 independently is absent, leaving a 5-membered ring;

R^{13} independently are C_{1-6} alkyl;

R^{PR} independently are a protecting group;

D is a heterocycle or a 4-, 5-, 6- or 7-membered ring that comprises saturated carbon atoms, wherein 1, 2 or 3 ring carbon atoms of the 4-, 5-, 6- or 7-membered ring are optionally independently substituted with $-\text{O}-$, $-\text{S}-$ or $-\text{NR}^{\text{PR}}-$ or where 1, 2 or 3 hydrogen atoms of the heterocycle or 1 or 2 hydrogen atoms of the 4-, 5-, 6- or 7-membered ring are substituted with $-\text{OR}^{\text{PR}}$, $-\text{SR}^{\text{PR}}$, $-\text{N}(\text{R}^{\text{PR}})_2$, $-\text{O}-\text{Si}-(\text{R}^{13})_3$, $-\text{CN}$, $-\text{NO}_2$, an ester, a thioester, a

phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, a halogen, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or, one more of the ring carbons are substituted with =O or =S, or D comprises two 5- or 6-membered rings, wherein the rings are fused or are linked by 1 or 2 bonds, provided that the compound is not 3 β ,17 β -dihydroxyandrost-5-ene, 3 β -hydroxyandrost-5-ene-17-one, 3 β -hydroxyandrost-5-ene-17-one 3-sulfate or an ester or ether derivative of any of these compounds and provided that when the compound has the structure



wherein each R^A independently is -OH, =O, an ester or an ether, and R^B is -C(O)CH₃, -OH, =O, an ester or an ether, then the ~~use of the compound~~ method is for the treatment of a subject having or susceptible to developing an autoimmune disease, inflammation or allergy, osteoporosis, acute myelitis, sarcoidosis, a cancer, a precancer, or an immunosuppression condition or an unwanted immune response either or both of which are associated with a chemotherapy, a radiation therapy, a wound, a bone fracture, a hemorrhage, a skin lesion or a burn or the medicament is for the treatment of a human having or susceptible to developing a pathogen infection selected from the group consisting of HIV-1, HIV-2, HTLV-1, HTLV-2, HSV-1, HSV-2,

HHV-6, HHV-8, CMV, hepatitis C virus, hepatitis B virus, Western Equine Encephalitis Virus, Japanese Encephalitis Virus, Yellow Fever Virus, a poxvirus, a Dengue virus, a papillomavirus, a togavirus, a
5 flavivirus, an intracellular bacterium, *Mycobacterium*, *Listeria*, *Brucella*,
Bartonella, *Bordetella*, *Pseudomonas*, *Yersinia*, *Vibrio*, *Salmonella*,
Streptococcus, *Staphylococcus*, *Candida*, *Aspergillus*, *Cryptococcus*,
Plasmodium, *Trypanosoma*, *Leishmania*, a gastrointestinal nematode, a
helminth, *Cryptosporidium*, *Toxoplasma*, *Pneumocystis*, *Schistosoma*, or
10 *Strongyloides stercoralis*.

17. (original): The method of claim 16 wherein the compound is 16 β -bromo-3 β -hydroxy-5 α -androstan-17-one, 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one, 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one hemihydrate,
15 16 β -chloro-3 β -hydroxy-5 α -androstan-17-one, 16 α -chloro-3 β -hydroxy-5 α -androstan-17-one, 3 β ,16 α -dihydroxy-5 α -androstan-17-one, 3 β ,16 β -dihydroxy-5 α -androstan-17-one, 3 β ,16 α ,17 β -trihydroxy-5 α -androstan-17-one, 3 β ,16 β ,17 β -trihydroxy-5 α -androstan-17-one or 3 α ,16 α ,17 β -trihydroxy-5 α -androstan-17-one.

20 18. (original): The method of claim 17 wherein the pathogen infection is an intracellular bacterium infection.

19. (original): The method of claim 18 wherein the intracellular bacterium infection is a *Mycobacterium* infection and the subject is a human.

25 ~~49. 20.~~ (currently amended): The method of claim 17 wherein the pathogen infection is ~~an~~ a hepatitis B virus, hepatitis C virus, poxvirus, Dengue virus, papillomavirus, a togavirus, or a flavivirus infection.

~~20.~~ 21. (currently amended): The method of claim 17 wherein the pathogen infection is a fungus infection or a yeast infection.

5 ~~24.~~ 22. (currently amended): The method of claim ~~20~~ 21 wherein the fungus infection or yeast infection is a *Candida*, *Aspergillus*, or a *Cryptococcus* infection and the subject is a human.

10 ~~22.~~ 23. (currently amended): The method of claim 17, wherein the pathogen infection is a parasite infection.

15 ~~23.~~ 24. (currently amended): The method of claim ~~22~~ 23, wherein the parasite infection is a *Plasmodium* infection, a *Trypanosoma* infection, a *Leishmania* infection, a *Schistosoma* infection or a *Cryptosporidium* infection.

20 ~~24.~~ 25. (currently amended): The method of claim 23 wherein the compound is 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one or 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one hemihydrate and the infection is a *Plasmodium* infection and the subject is a human.

25 ~~25.~~ 26. (currently amended): A composition comprising 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one, 16 α -bromo-2-oxa-3 β -hydroxy-5 α -androstan-17-one, 16 α -bromo-3 β -hydroxy-11-oxa-5 α -androstan-17-one or 16 α -bromo-3 β -hydroxy-5 α -androstan-17-one hemihydrate and one or more nonaqueous liquid excipients, wherein the composition comprises less than about 3% v/v water.

30 ~~26.~~ 27. (currently amended): The composition of claim 25 wherein the composition comprises less than about 0.3% v/v water.

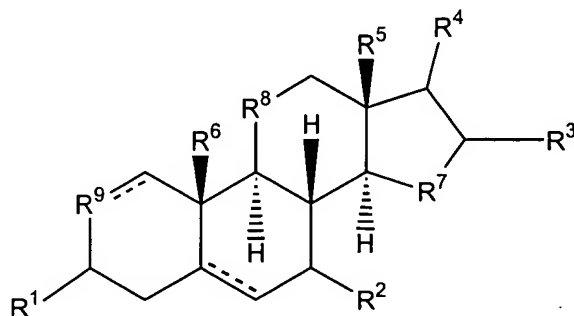
~~27.~~ 28. (currently amended): The composition of claim 25 wherein the one or more nonaqueous liquid excipients are two or more of an alcohol, a polyethylene glycol, propylene glycol and benzyl benzoate.

5

~~28.~~ 29. (currently amended): The composition of claim 25 wherein the composition is a parenteral formulation.

30. (new): A method to treat a parasite or bacterial infection in a subject, comprising intermittently administering to the subject an effective amount of a compound having the structure

10



wherein, the dotted lines are optional double bonds and the hydrogen atom at the 5-position, if present, is in the α -configuration or the β -configuration and R¹, R², R³ and R⁴ respectively are in the β -, β -, α - and β -configurations, the β -, β -, β - and β -configurations, the α -, β -, α - and β -configurations or the β -, α -, α - and β -configurations;

15

R¹ is -H, -OH, =O, -SH, =S, -O-CH₃, -O-S(O)(O)-O⁻Na⁺, -O-S(O)(O)-OC₂H₅, -O-(CH₂)₄CH₃, -O-C(O)-NH₂, -O-C(O)-NHCH₃, -O-C(O)-NHC₂H₅, -O-C(O)-NHCH₂CH₂CH₃, -O-C(O)-NHCH₂CH₂OCH₂CH₃, -O-C(O)-CH₃, -O-C(O)-C₂H₅, -O-C(O)-CH₂CH₂CH₃, -O-C(O)-CH₂CH₂CH₂CH₃, -O-CH₂C₆H₅, -O-CH₂C₆H₄OCH₃, -O-CH₂C₆H₄OCH₃, -O-CH₂C₆H₄F, -O-CH₂C₆H₄F, -O-CH₂C₆H₃(OCH₃)₂, -O-CH₂C₆H₃(OCH₃)₂, -O-CH₂C₆H₄OCH₂CH₃, -O-CH₂C₆H₄OCH₂CH₃, -O-C(O)-CH₂CH₂NH₂, -O-C(O)-CH₂CH₂CH₂NH₂, -O-C(O)-CH₂OH, -O-C(O)-CH₂CH₂OH, -O-C(O)-CH₂CH₂CH₂OH, -O-C(O)-CH₂SH, -O-

20

25

C(O)-CH₂CH₂SH, -O-C(O)-CH₂CH₂CH₂SH, -O-S(O)(O)-O-CH₂-CH(O-C(O)-OH)-
CH₂-O-C(O)-C₂H₅, -O-P(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-C₂H₅, -O-
C(O)-A₄-NH₂, -O-C(O)-A₆-NH₂, -O-C(O)-A₈-NH₂, -O-C(O)-A₄-OH, -O-C(O)-A₆-
5 OH, -O-C(O)-A₈-OH, -O-S(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-C₃H₇, -O-
P(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-C₃H₇, -O-S(O)(O)-O-CH₂-CH(O-
C(O)-OH)-CH₂-O-C(O)-C₄H₉, -O-P(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-
C₄H₉, -O-S(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-C₆H₁₃, -O-P(O)(O)-O-
CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-C₆H₁₃, -O-S(O)(O)-O-CH₂-CH(O-C(O)-OH)-
10 CH₂-O-C(O)-C₈H₁₇, -O-P(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-C₈H₁₇, -O-
S(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-CH₂C₅H₁₀OH, -O-P(O)(O)-O-CH₂-
CH(O-C(O)-OH)-CH₂-O-C(O)-CH₂C₅H₁₀OH, -O-S(O)(O)-O-CH₂-CH(O-C(O)-OH)-
CH₂-O-C(O)-CH₂C₃H₆OH, -O-P(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-
CH₂C₃H₆OH, -O-S(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-CH₂C₇H₁₄OH or -
15 O-P(O)(O)-O-CH₂-CH(O-C(O)-OH)-CH₂-O-C(O)-CH₂C₇H₁₄OH;

R² is -H, -OH, -CH₃, -OCH₃, -OC₂H₅, -OCH₂CH₂CH₃, -OCH₂CH₂CH₂CH₃, -
Cl, -O-C(S)-O-CH₃, -O-C(S)-O-CH₂CH₃, -O-C(S)-O-C₃H₇, -O-C(S)-O-C₄H₉, -O-
C(S)-O-C₆H₁₃, -O-C(O)-O-CH₂C₆H₅, -O-C(O)-O-CH₂C₆H₄OH, -O-C(O)-O-
CH₂C₆H₄OCH₃, -O-C(O)-O-CH₂C₆H₄OCH₂CH₃, -O-C(O)-O-CH₂C₆H₄F, -O-C(O)-
20 O-C₆H₅, -O-C(O)-O-C₆H₄OCH₃, -SH, =S, -O-CHR²⁴-C(O)-OR²⁵, -O-CHR²⁴-C(O)-
R²⁵, -O-CHR²⁴-C(O)-N(R²⁵)₂, -O-CHR²⁴-C(O)-NHR²⁵, -O-CHR²⁴-C(O)-NH₂ or -O-
CHR²⁴-C(O)-OC₆H₅;

R³ is -OH, =O, -F, -Cl, -Br, -I, -O-C(O)-CH₃, -O-C(O)-CH₂CH₃, -O-C(O)-
CH₂CH₂CH₃, -O-C(S)-O-CH₃, -O-C(S)-O-CH₂CH₃, -O-C(S)-O-C₃H₇, -O-C(S)-O-
25 C₄H₉, -O-C(S)-O-C₆H₁₃, -O-C(O)-O-CH₂C₆H₅, -O-C(O)-O-CH₂C₆H₄OH, -O-C(O)-
O-CH₂C₆H₄OCH₃, -O-C(O)-O-CH₂C₆H₄OCH₂CH₃, -O-C(O)-O-CH₂C₆H₄F, -O-
C(O)-O-C₆H₅, -O-C(O)-O-C₆H₄OCH₃, -SH, =S, -O-CHR²⁴-C(O)-OR²⁵, -O-CHR²⁴-
C(O)-R²⁵, -O-CHR²⁴-C(O)-N(R²⁵)₂, -O-CHR²⁴-C(O)-NHR²⁵, -O-CHR²⁴-C(O)-NH₂
or -O-CHR²⁴-C(O)-OC₆H₅;

30 R⁴ is -OH, -O-C(O)-CH₃, -O-C(O)-CH₂CH₃, -O-C(O)-CH₂CH₂CH₃, -O-
C(O)CH₂NH₂, -O-C(O)C(CH₃)H-NH₂, -O-C(O)C(CH₂C₆H₅)H-NH₂, -O-C(O)-O-

NHC(CH₃)H-CO₂H, -O-C(O)-O-NHCH₂-CO₂H, -O-C(O)-O-NH(CH₂C₆H₅)H-CO₂H,
-O-C(O)-CF₃, -O-C(O)-CH₂CF₃, -O-C(O)-(CH₂)₃CF₃, -O-C(O)-(CH₂)₅CH₃, -O-
C(O)-O-CH₃, -O-C(O)-O-CH₂CH₃, -O-C(O)-O-C₃H₇, -O-C(O)-O-C₄H₉, -O-C(O)-O-
5 C₆H₁₃, -O-C(O)-O-C₆H₅, -O-C(O)-O-C₆H₄OH, -O-C(O)-O-C₆H₄OCH₃, -O-C(O)-O-
C₆H₄OCH₂CH₃, -O-C(O)-O-C₆H₄F, -O-C(O)-S-CH₃, -O-C(O)-S-CH₂CH₃, -O-
C(O)-S-C₃H₇, -O-C(O)-S-C₄H₉, -O-C(O)-S-C₆H₁₃, -O-C(O)-S-C₆H₅, -O-C(O)-S-
C₆H₄OH, -O-C(O)-S-C₆H₄OCH₃, -O-C(O)-S-C₆H₄OCH₂CH₃, -O-C(O)-S-C₆H₄F, -
O-C(S)-O-CH₃, -O-C(S)-O-CH₂CH₃, -SH, =S, -O-C(S)-O-C₆H₁₃, -O-C(O)-O-
10 CH₂C₆H₅, -O-C(O)-O-CH₂C₆H₄OH, -O-C(O)-O-CH₂C₆H₄OCH₃ or -O-C(O)-O-
CH₂C₆H₄OCH₂CH₃ or -O-C(O)-O-CH₂C₆H₄F;

R⁵ is -H, -CH₃ or -CH₂OH;

R⁶ is -H, -CH₃ or -CH₂OH;

R⁷ is -CH₂-, -O-, -NH- or -S-;

15 R⁸ is -CH₂-, -O-, -NH- or -S-;

R⁹ is -CH₂-, =CH-, -O-, -NH- or -S-;

R²⁴ independently are -H, -CH₂-C₆H₅, -CH₂CH₂-C₆H₅, C₁₋₈ alkyl, C₂₋₈
alkenyl, aryl or heterocycle where each alkyl, alkenyl, aryl and heterocycle moiety
is independently optionally substituted with 1, 2, or 3, usually 1, -O-, -S-, -NH-,
20 halogen, aryl, -OX, -SX, -NHX, =O or -CN moieties or the C₁₋₈ alkyl is optionally
substituted with 3, 4, 5 or 6 halogens, and X is -H or a protecting group;

R²⁵ independently are -H, -CH₂-C₆H₅, -CH₂CH₂-C₆H₅, C₁₋₁₂ alkyl, C₂₋₁₂
alkenyl, aryl, heterocycle, -CH₂-heterocycle or -CH₂-aryl, where each alkyl
alkenyl, aryl, heterocycle, -CH₂-heterocycle or -CH₂-aryl moiety is independently
25 optionally substituted with 1 or 2, usually 1, -O-, -S-, -NH-, halogen, aryl, -OX, -
SX, -NHX, =O, -C(O)OX or -CN moieties or the C₁₋₁₂ alkyl, C₂₋₁₂ alkenyl or aryl,
are optionally independently substituted with 3, 4, 5 or 6 halogens, where X is -H
or a protecting group, or the aryl, heterocycle, -CH₂-heterocycle or -CH₂-aryl
moieties are optionally independently substituted with 1, 2 or 3 C₁₋₄ alkyl moieties
30 or with 1, 2 or 3 C₁₋₄ alkoxy moieties at the aryl moiety or at the heterocycle; and

A4-NH₂ is a 4 carbon aminoalkyl group, A6-NH₂ is a 6 carbon aminoalkyl group, A8-NH₂ is a 8 carbon aminoalkyl group, A4-OH is a 4 carbon alkyl group substituted with -OH or -O-, A6-OH is a 6 carbon alkyl group substituted with -OH or -O-, A8-OH is a 8 carbon alkyl group substituted with -OH or -O-.

31. (new): The method of claim 30 wherein R¹ is -OH or =O.

10 32. (new): The method of claim 31 wherein R² is -H, -SH or =S.

33. (new): The method of claim 32 wherein R³ is -OH or =O.

34. (new): The method of claim 33 wherein R⁴ is -OH or -SH.

15

35. (new): The method of claim 34 wherein R⁵ is -CH₂OH or -CH₃.

36. (new): The method of claim 35 wherein R⁶ is -H or -CH₃.

20

37. (new): The method of claim 36 wherein R⁷ is -CH₂- or -O-.

38. (new): The method of claim 37 wherein R⁸ is -CH₂-, -NH- or -O-.

39. (new): The method of claim 38 wherein R⁹ is -CH₂-, =CH-, -NH- or -O-.

25

40. (new): The method of claim 39 wherein R¹ is =O, R² is -H and R⁴ is -OH.

41. (new): The method of claim 39 wherein the compound is 3 β ,16 α ,17 β -trihydroxyandrostane, 3 α ,16 α ,17 β -trihydroxyandrostane, 3-oxo-16 α ,17 β -

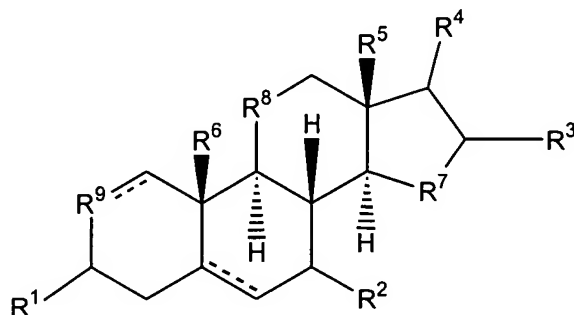
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dihydroxyandrostane, 3-oxo-16 β ,17 β -dihydroxyandrostane, 3-oxo-16 α ,17 β -
dihydroxyandrost-1-ene, 3-oxo-16 β ,17 β -dihydroxyandrost-1-ene, 3-oxo-16 α ,17 β -
dihydroxyandrost-5-ene, 3-oxo-16 β ,17 β -dihydroxyandrost-5-ene, 3-oxo-16 α ,17 β -
5 dihydroxyandrost-1,5-diene, 3-oxo-16 β ,17 β -dihydroxyandrost-1,5-diene or a 8-
oxa, 8-thia, 8-aza, 15-oxa, 15-aza, 15-thia or 19-nor analog of any of these
compounds.

42. (new): The method of claim 39 wherein the compound is 3 β ,16 α ,17 β -
10 trihydroxyandrostane.

43. (new): The method of claim 39 wherein the compound is 3-oxo-
16 α ,17 β -dihydroxyandrostane.

15 44. (new): A formulation comprising one or more excipients and a
compound having the structure



wherein, the dotted lines are optional double bonds and the hydrogen
atom at the 5-position, if present, is in the α -configuration or the β -
20 configuration and R¹, R², R³ and R⁴ respectively are in the β -, β -, α - and β -
configurations, the β -, β -, β - and β -configurations, the α -, β -, α - and β -
configurations or the β -, α -, α - and β -configurations;

R¹ is =O;

R² is -H, -OH, -CH₃, -OCH₃, -OC₂H₅, -OCH₂CH₂CH₃, -OCH₂CH₂CH₂CH₃, -
25 Cl, -O-C(S)-O-CH₃, -O-C(S)-O-CH₂CH₃, -O-C(S)-O-C₃H₇, -O-C(S)-O-C₄H₉, -O-

C(S)-O-C₆H₁₃, -O-C(O)-O-CH₂C₆H₅, -O-C(O)-O-CH₂C₆H₄OH, -O-C(O)-O-CH₂C₆H₄OCH₃, -O-C(O)-O-CH₂C₆H₄OCH₂CH₃, -O-C(O)-O-CH₂C₆H₄F, -O-C(O)-O-C₆H₅, -O-C(O)-O-C₆H₄OCH₃, -SH, =S, -O-CHR²⁴-C(O)-OR²⁵, -O-CHR²⁴-C(O)-R²⁵, -O-CHR²⁴-C(O)-N(R²⁵)₂, -O-CHR²⁴-C(O)-NHR²⁵, -O-CHR²⁴-C(O)-NH₂ or -O-CHR²⁴-C(O)-OC₆H₅;

R³ is -OH, -O-C(O)-CH₃, -O-C(O)-CH₂CH₃, -O-C(O)-CH₂CH₂CH₃, -O-C(S)-O-CH₃, -O-C(S)-O-CH₂CH₃, -O-C(S)-O-C₃H₇, -O-C(S)-O-C₄H₉, -O-C(S)-O-C₆H₁₃, -O-C(O)-O-CH₂C₆H₅, -O-C(O)-O-CH₂C₆H₄OH, -O-C(O)-O-CH₂C₆H₄OCH₃, -O-C(O)-O-CH₂C₆H₄OCH₂CH₃, -O-C(O)-O-CH₂C₆H₄F, -O-C(O)-O-C₆H₅, -O-C(O)-O-C₆H₄OCH₃, -SH, =S, -O-CHR²⁴-C(O)-OR²⁵, -O-CHR²⁴-C(O)-R²⁵, -O-CHR²⁴-C(O)-N(R²⁵)₂, -O-CHR²⁴-C(O)-NHR²⁵, -O-CHR²⁴-C(O)-NH₂ or -O-CHR²⁴-C(O)-OC₆H₅;

R⁴ is -OH, -O-C(O)-CH₃, -O-C(O)-CH₂CH₃, -O-C(O)-CH₂CH₂CH₃, -O-C(O)CH₂NH₂, -O-C(O)C(CH₃)H-NH₂, -O-C(O)C(CH₂C₆H₅)H-NH₂, -O-C(O)-O-NHC(CH₃)H-CO₂H, -O-C(O)-O-NHCH₂-CO₂H, -O-C(O)-O-NH(CH₂C₆H₅)H-CO₂H, -O-C(O)-CF₃, -O-C(O)-CH₂CF₃, -O-C(O)-(CH₂)₃CF₃, -O-C(O)-(CH₂)₅CH₃, -O-C(O)-O-CH₃, -O-C(O)-O-CH₂CH₃, -O-C(O)-O-C₃H₇, -O-C(O)-O-C₄H₉, -O-C(O)-O-C₆H₁₃, -O-C(O)-O-C₆H₅, -O-C(O)-O-C₆H₄OH, -O-C(O)-O-C₆H₄OCH₃, -O-C(O)-O-C₆H₄OCH₂CH₃, -O-C(O)-O-C₆H₄F, -O-C(O)-S-CH₃, -O-C(O)-S-CH₂CH₃, -O-C(O)-S-C₃H₇, -O-C(O)-S-C₄H₉, -O-C(O)-S-C₆H₁₃, -O-C(O)-S-C₆H₅, -O-C(O)-S-C₆H₄OH, -O-C(O)-S-C₆H₄OCH₃, -O-C(O)-S-C₆H₄OCH₂CH₃, -O-C(O)-S-C₆H₄F, -O-C(S)-O-CH₃, -O-C(S)-O-CH₂CH₃, -SH, =S, -O-C(S)-O-C₆H₁₃, -O-C(O)-O-CH₂C₆H₅, -O-C(O)-O-CH₂C₆H₄OH, -O-C(O)-O-CH₂C₆H₄OCH₃ or -O-C(O)-O-CH₂C₆H₄OCH₂CH₃ or -O-C(O)-O-CH₂C₆H₄F;

R⁵ is -H, -CH₃ or -CH₂OH;

R⁶ is -H, -CH₃ or -CH₂OH;

R⁷ is -CH₂-, -O-, -NH- or -S-;

R⁸ is -CH₂-, -O-, -NH- or -S-;

R⁹ is -CH₂-, =CH-, -O-, -NH- or -S-;

R^{24} independently are -H, -CH₂-C₆H₅, -CH₂CH₂-C₆H₅, C₁₋₈ alkyl, C₂₋₈ alkenyl, aryl or heterocycle where each alkyl, alkenyl, aryl and heterocycle moiety is independently optionally substituted with 1, 2, or 3, usually 1, -O-, -S-, -NH-,
5 halogen, aryl, -OX, -SX, -NHX, =O or -CN moieties or the C₁₋₈ alkyl is optionally substituted with 3, 4, 5 or 6 halogens, and X is -H or a protecting group;

R^{25} independently are -H, -CH₂-C₆H₅, -CH₂CH₂-C₆H₅, C₁₋₁₂ alkyl, C₂₋₁₂ alkenyl, aryl, heterocycle, -CH₂-heterocycle or -CH₂-aryl, where each alkyl alkenyl, aryl, heterocycle, -CH₂-heterocycle or -CH₂-aryl moiety is independently
10 optionally substituted with 1 or 2, usually 1, -O-, -S-, -NH-, halogen, aryl, -OX, -SX, -NHX, =O, -C(O)OX or -CN moieties or the C₁₋₁₂ alkyl, C₂₋₁₂ alkenyl or aryl, are optionally independently substituted with 3, 4, 5 or 6 halogens, where X is -H or a protecting group, or the aryl, heterocycle, -CH₂-heterocycle or -CH₂-aryl moieties are optionally independently substituted with 1, 2 or 3 C₁₋₄ alkyl moieties
15 or with 1, 2 or 3 C₁₋₄ alkoxy moieties at the aryl moiety or at the heterocycle; and

A₄-NH₂ is a 4 carbon aminoalkyl group, A₆-NH₂ is a 6 carbon aminoalkyl group, A₈-NH₂ is a 8 carbon aminoalkyl group, A₄-OH is a 4 carbon alkyl group substituted with -OH or -O-, A₆-OH is a 6 carbon alkyl group substituted with -OH or -O-, A₈-OH is a 8 carbon alkyl group substituted with -OH or -O-.

20
45. (new): The formulation of claim 44 wherein the compound is 3 β ,16 α ,17 β -trihydroxyandrostane, 3 α ,16 α ,17 β -trihydroxyandrostane, 3-oxo-16 α ,17 β -dihydroxyandrostane, 3-oxo-16 β ,17 β -dihydroxyandrostane, 3-oxo-16 α ,17 β -dihydroxyandrost-1-ene, 3-oxo-16 β ,17 β -dihydroxyandrost-1-ene, 3-oxo-
25 16 α ,17 β -dihydroxyandrost-5-ene, 3-oxo-16 β ,17 β -dihydroxyandrost-5-ene, 3-oxo-16 α ,17 β -dihydroxyandrost-1,5-diene, 3-oxo-16 β ,17 β -dihydroxyandrost-1,5-diene or a 8-oxa, 8-thia, 8-aza, 15-oxa, 15-aza, 15-thia or 19-nor analog of any of these compounds.

46. (new): The formulation of claim 44 wherein the formulation is a solid formulation.

5 47. (new): The formulation of claim 44 wherein the formulation is a liquid formulation.

48. (new): The formulation of claim 44 wherein the compound is $3\beta,16\alpha,17\beta$ -trihydroxyandrostane.

10

49. (new): The formulation of claim 44 wherein the compound is 3-oxo- $16\alpha,17\beta$ -dihydroxyandrostane.

15